```
  1 GTGAAGGGAG CCGGGATCAG CCAGGGGCCA GCATGAGCCG GAGGGAGGGA AGTCTGGAAG ACCCCCAGAC TGATTCCTCA GTCTCACTTC TTCCCCACTT
    CACTTCCCTC GGCCCTAGTC GGTCCCCGGT CGTACTCGGC CTCCCTCCCT TCAGACCTTC TGGGGGTCTG ACTAAGGAGT CAGAGTGAAG AAGGGGTGAA
  1                                  M  S  R   R  E  G   S  L  E  D   P  Q  T   D  S  S   V  S  L  L   P  H  L
                                     ^met

101 GGAGGCCAAG ATCCGTCAGA CACACAGCCT TGCGCACCTC CTCACCAAAT ACGCTGAGCA GCTGCTCCAG GAATATGTGC AGCTCCAGGG AGACCCCTTC
    CCTCCGGTTC TAGGCAGTCT GTGTGTCGGA ACGCGTGGAG GAGTGGTTTA TGCGACTCGT CGACGAGGTC CTTATACACG TCGAGGTCCC TCTGGGGAAG
 24 E  A  K   I  R  Q  T  H  S  L   A  H  L   L  T  K  Y   A  E  Q   L  L  Q   E  Y  V  Q   L  Q  G   D  P  F

201 GGGCTGCCCA GCTTCTCGCC GCCGCGGCTG CCGGTGGCCG GCCTGAGCGC CCCGGCTCCG AGCCACGCGG GGCTGCCAGT GCACGAGCGG CTGCGGCTGG
    CCCGACGGGT CGAAGAGCGG CGGCGCCGAC GGCCACCGGC CGGACTCGCG GGGCCGAGGC TCGGTGCGCC CCGACGGTCA CGTGCTCGCC GACGCCGACC
 57 G  L  P  S   F  S  P   P  R  L   P  V  A  G   L  S  A   P  A  P   S  H  A  G   L  P  V   H  E  R   L  R  L  D

301 ACGCGGCGGC GCTGGCCGCG CTGCCCCCGC TGCTGGACGC AGTGTGTCGC CGCCAGGCCG AGCTGAACCC GCGCGCGCCG CGCCTGCTGC GCCGCCTGGA
    TGCGCCGCCG CGACCGGCGC GACGGGGGCG ACGACCTGCG TCACACAGCG GCGGTCCGGC TCGACTTGGG CGCGCGCGGC GCGGACGACG CGGCGGACCT
 91  A  A  A   L  A  A   L  P  P  L   L  D  A   V  C  R   R  Q  A  E   L  N  P   R  A  P   R  L  L  R   R  L  E

401 GGACGCGGCG CGCCAGGCCC GGGCCCTGGG CGCCGCCGTG GAGGCCTTGC TGGCCGCGCT GGGCGCCGCC AACCGCGGGC CCCGGGCCGA GCCCCCCGCC
    CCTGCGCCGC GCGGTCCGGG CCCGGGACCC GCGGCGGCAC CTCCGGAACG ACCGGCGCGA CCCGCGGCGG TTGGCGCCCG GGGCCCGGCT CGGGGGGCGG
124  D  A  A   R  Q  A  R   A  L  G   A  A  V   E  A  L  L   A  A  L   G  A  A   N  R  G  P   R  A  E   P  P  A

501 GCCACCGCCT CAGCCGCCTC CGCCACCGGG GTCTTCCCCG CCAAGGTGCT GGGGCTCCGC GTTTGCGGCC TCTACCGCGA GTGGCTGAGC CGCACCGAGG
    CGGTGGCGGA GTCGGCGGAG GCGGTGGCCC CAGAAGGGGC GGTTCCACGA CCCCGAGGCG CAAACGCCGG AGATGGCGCT CACCGACTCG GCGTGGCTCC
157 A  T  A  S   A  A  S   A  T  G   V  F  P  A   K  V  L   G  L  R   V  C  G  L   Y  R  E   W  L  S   R  T  E  G

601 GCGACCTGGG CCAGCTGCTG CCCGGGGGCT CGGCCTGAGC GCCGCGGGGC AGCTCGCCCC GCCTCCTCCC GCTGGGTTCC GTCTCTCCTT CCGCTTCTTT
    CGCTGGACCC GGTCGACGAC GGGCCCCCGA GCCGGACTCG CGGCGCCCCG TCGAGCGGGG CGGAGGAGGG CGACCCAAGG CAGAGAGGAA GGCGAAGAAA
191  D  L  G   Q  L  L   P  G  G  S   A  O  (SEQ ID NO:3)

701 GTCTTTCTCT GCCGCTGTCG GTGTCTGTCT GTCTGCTCTT AGCTGTCTCC ATTGCCTCGG CCTTCTTTGC TTTTTGTGGG GGAGAGGGGA GGGGACGGGC
    CAGAAAGAGA CGGCGACAGC CACAGACAGA CAGACGAGAA TCGACAGAGG TAACGGAGCC GGAAGAAACG AAAAACACCC CCTCTCCCCT CCCCTGCCCG

801 AGGGTCTCTG TCGCCCAGGC TGGGGTGCAG TGGCGCGATC CCAGCACTGC AGCCTCAACC TCCTGGGCTC AAGCCATCCT TCCGCCTCAG CTTCCCCAGC
    TCCCAGAGAC AGCGGGTCCG ACCCCACGTC ACCGCGCTAG GGTCGTGACG TCGGAGTTGG AGGACCCGAG TTCGGTAGGA AGGCGGAGTC GAAGGGGTCG
```

FIG. 1A

```
901  AGCTGGGACT ACAGGCACGC GCCACCACAG CCGGCTAATT TTTTATTTAA TTTTTTGTAG AGACGAGGTT TCGCCATGTT GCCCAGGCTG GTCTTGAACT
     TCGACCCTGA TGTCCGTGCG CGGTGGTGTC GGCCGATTAA AAAATAAATT AAAAAACATC TCTGCTCCAA AGCGGTACAA CGGGTCCGAC CAGAACTTGA

1001 CCGGGGCTCA AGCGATCCTC CCGCTTCAGC CTCCCTAAGT GCTGGGATTG CAGGCGTGAG CCACTTTCCC AGCCTCTCTT TGCTTTGCCT GCCCCGTTCT
     GGCCCCGAGT TCGCTAGGAG GGCGAAGTCG GAGGGATTCA CGACCCTAAC GTCCGCACTC GGTGAAAGGG TCGGAGAGAA ACGAAACGGA CGGGGCAAGA
                                                                         ^58125.tm.f1               ^58125.tm.p1

1101 CTTAACTCTT GGACCCTCCT CGTCTGCATG GTAACTCCGT CTGAGTCTAC CATTTTCTTG CTCTCCCTCC TTCCTTGGGC CTGCCTCAGT TCCCTTTGGC
     GAATTGAGAA CCTGGGAGGA GCAGACGTAC CATTGAGGCA GACTCAGATG GTAAAAGAAC GAGAGGGAGG AAGGAACCCG GACGGAGTCA AGGGAAACCG
                                            ^58125.tm.r1

1201 CTCCCCCTTT ACCCAGCTCT TGGGGTGTCT CTGTTTTTTC CATCCCCACT TCCTGCCTTC TCGTGGCCCT GTGTGAGCAC ATGTGTACAT CTCAGCCTTA
     GAGGGGGAAA TGGGTCGAGA ACCCCACAGA GACAAAAAAG GTAGGGGTGA AGGACGGAAG AGCACCGGGA CACACTCGTG TACACATGTA GAGTCGGAAT

1301 TCTCAAGGAG GTGACACCTT CTCTCCTTGT CCCCATCTGG CCGTCTCTCT GTGCTTCCCT GGCCAGGGGC GTGCCTGCTG GTCCTATGGG GGGAAGGCTA
     AGAGTTCCTC CACTGTGGAA GAGAGGAACA GGGGTAGACC GGCAGAGAGA CACGAAGGGA CCGGTCCCCG CACGGACGAC CAGGATACCC CCCTTCCGAT

1401 CTCCGCATCT CAGCCACCTT CCTCAGGCTC ACTCCACCTA CATCCCCAGT CTGCCACACC CCATCCCTTT GGGCCTCAGC CCTGTCCCTT TGATGTCCTC
     GAGGCGTAGA GTCGGTGGAA GGAGTCCGAG TGAGGTGGAT GTAGGGGTCA GACGGTGTGG GGTAGGGAAA CCCGGAGTCG GGACAGGGAA ACTACAGGAG

1501 CTTTCCTTCA GCCCCTCTGC CCTGTCCCTG CACACCTCC  (SEQ ID NO:1)
     GAAAGGAAGT CGGGGAGACG GGACAGGGAC GTGTGGAGG  (SEQ ID NO:2)
```

FIG. 1B

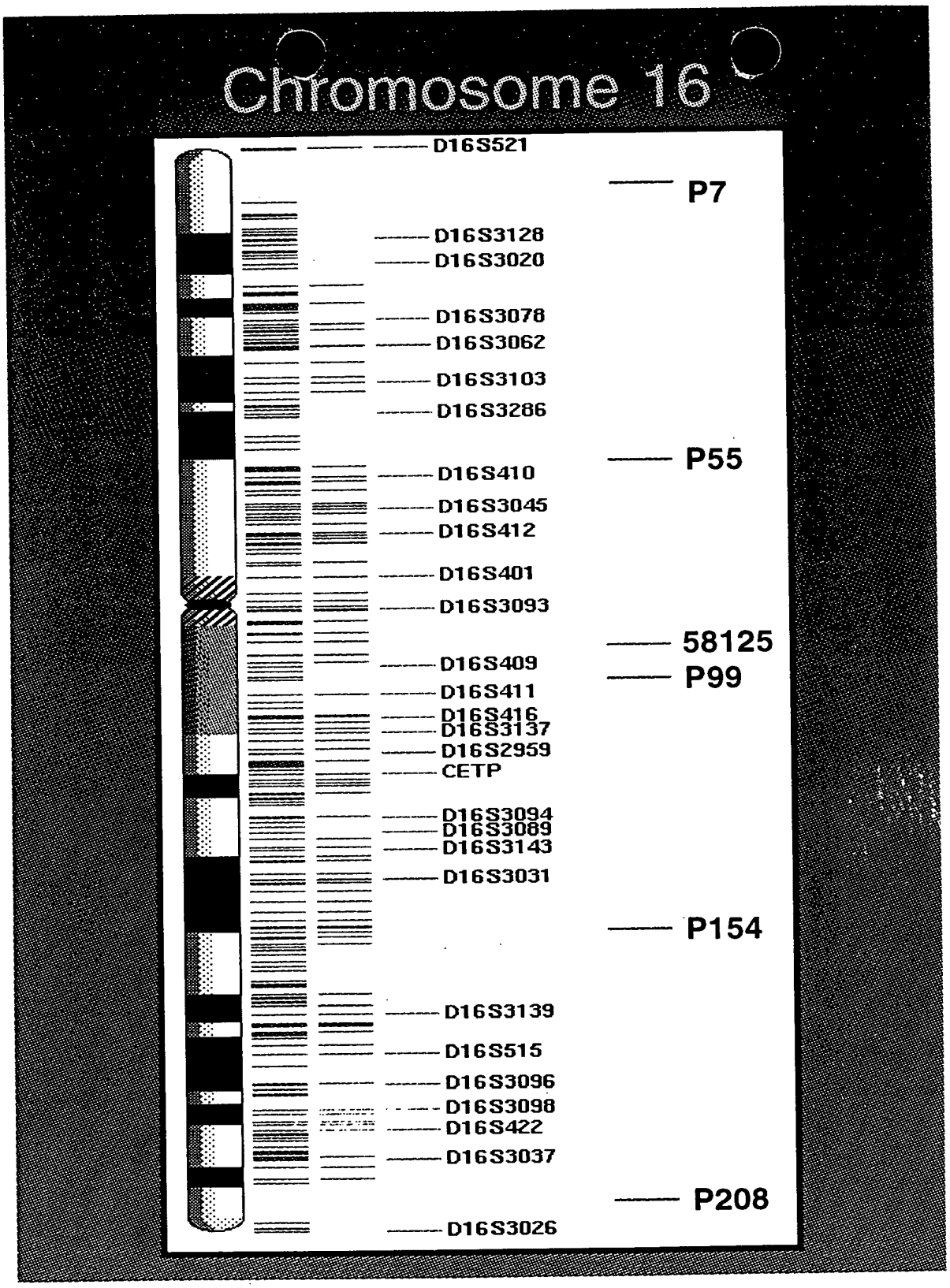
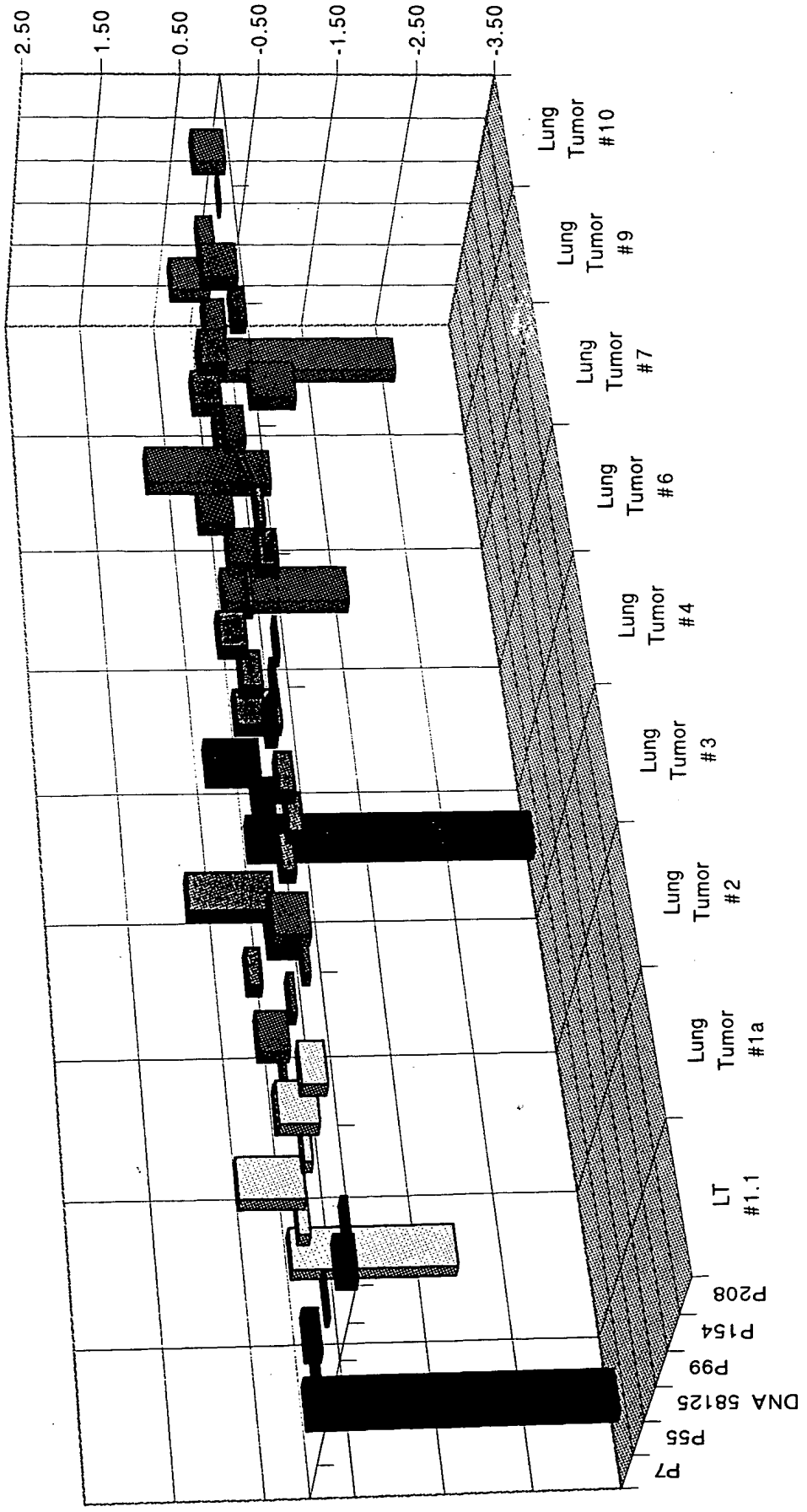
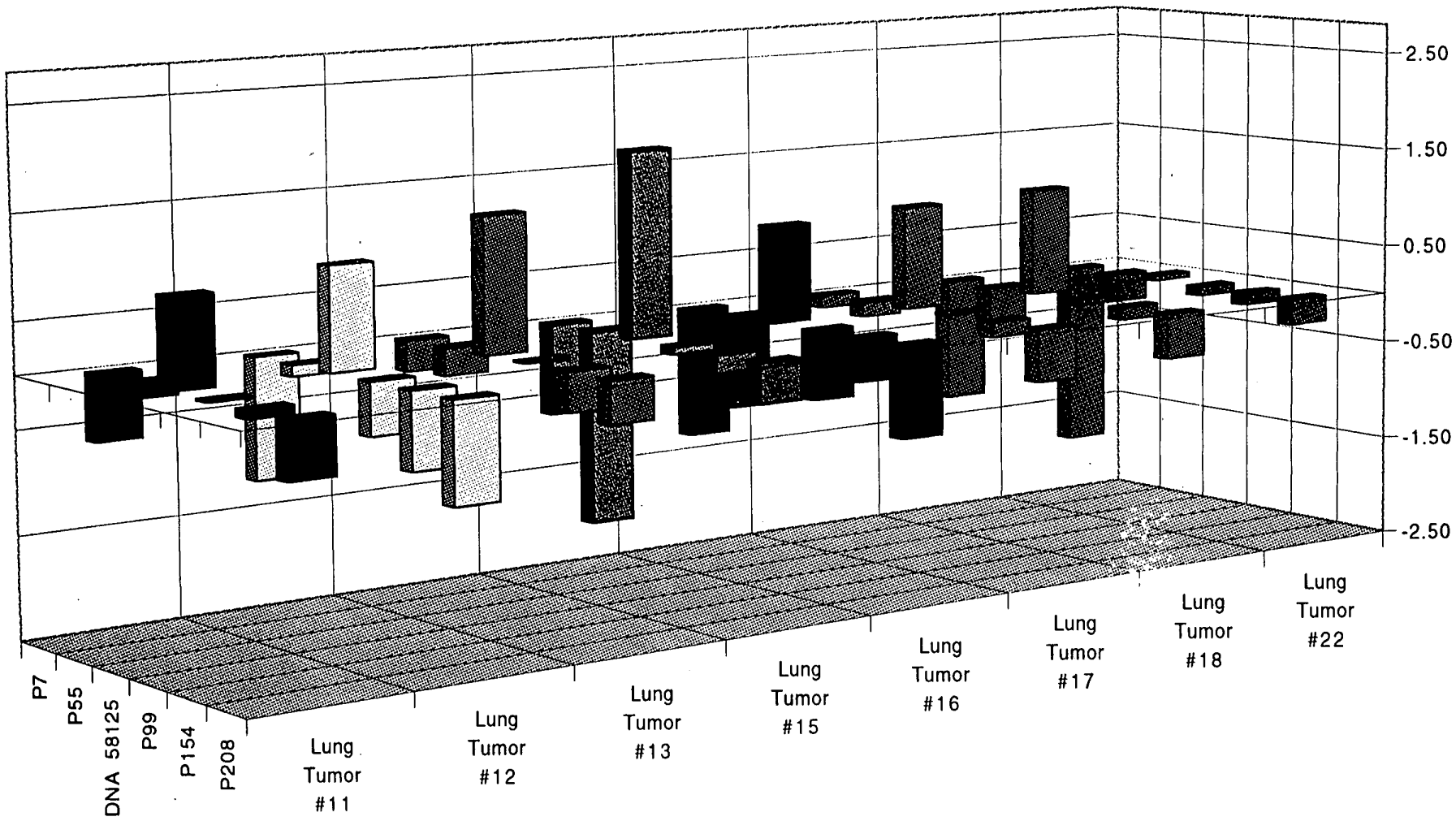

Chromosome 16
D16S521
P7
D16S3128
D16S3020
D16S3078
D16S3062
D16S3103
D16S3286
P55
D16S410
D16S3045
D16S412
D16S401
D16S3093
58125
D16S409
P99
D16S411
D16S416
D16S3137
D16S2959
CETP
D16S3094
D16S3089
D16S3143
D16S3031
P154
D16S3139
D16S515
D16S3096
D16S3098
D16S422
D16S3037
P208
D16S3026

FIG. 2



Framework Analysis of DNA58125 Cardiotrophin-1 on Lung Tumor Panel 1

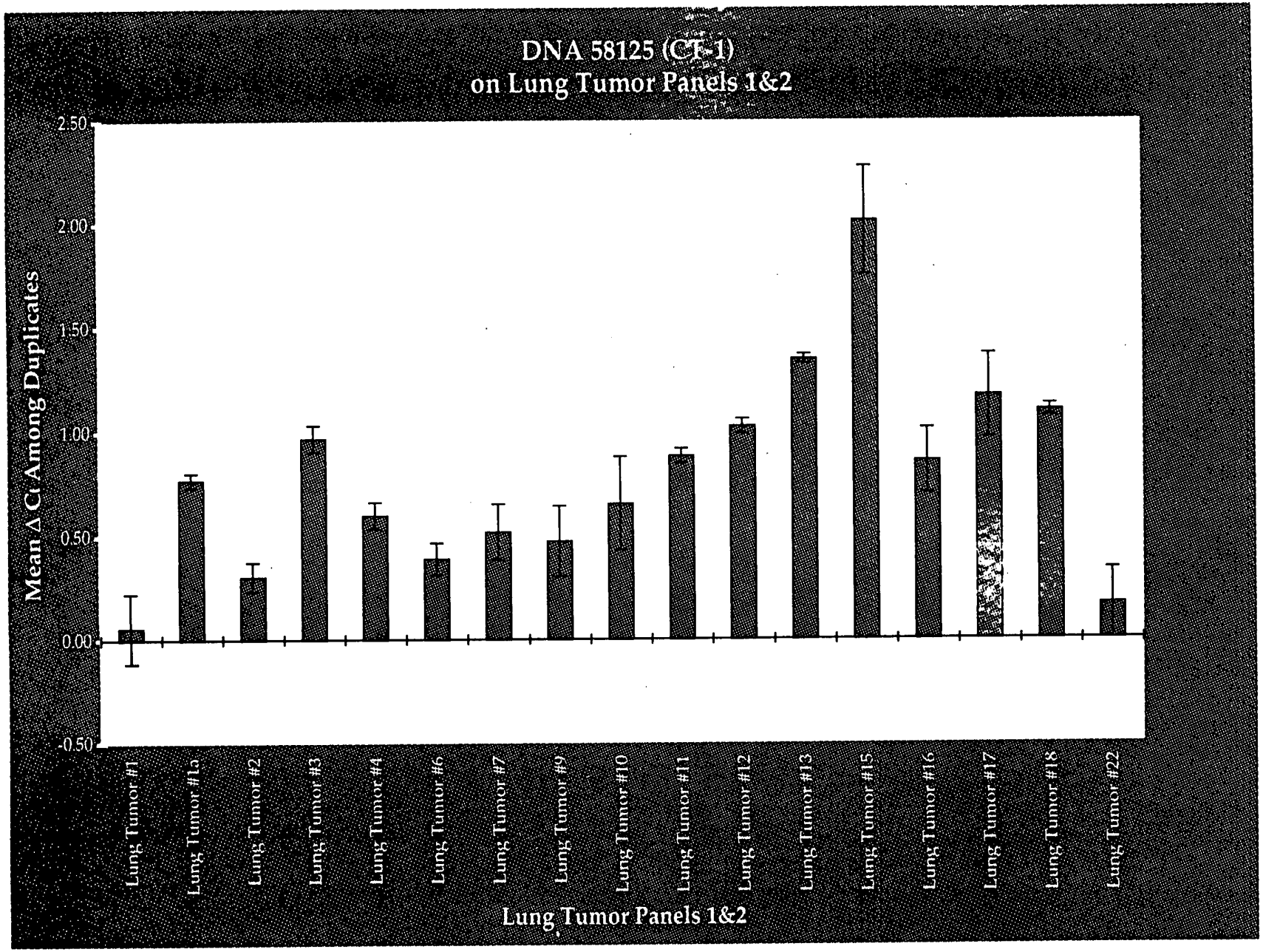
FIG. 3

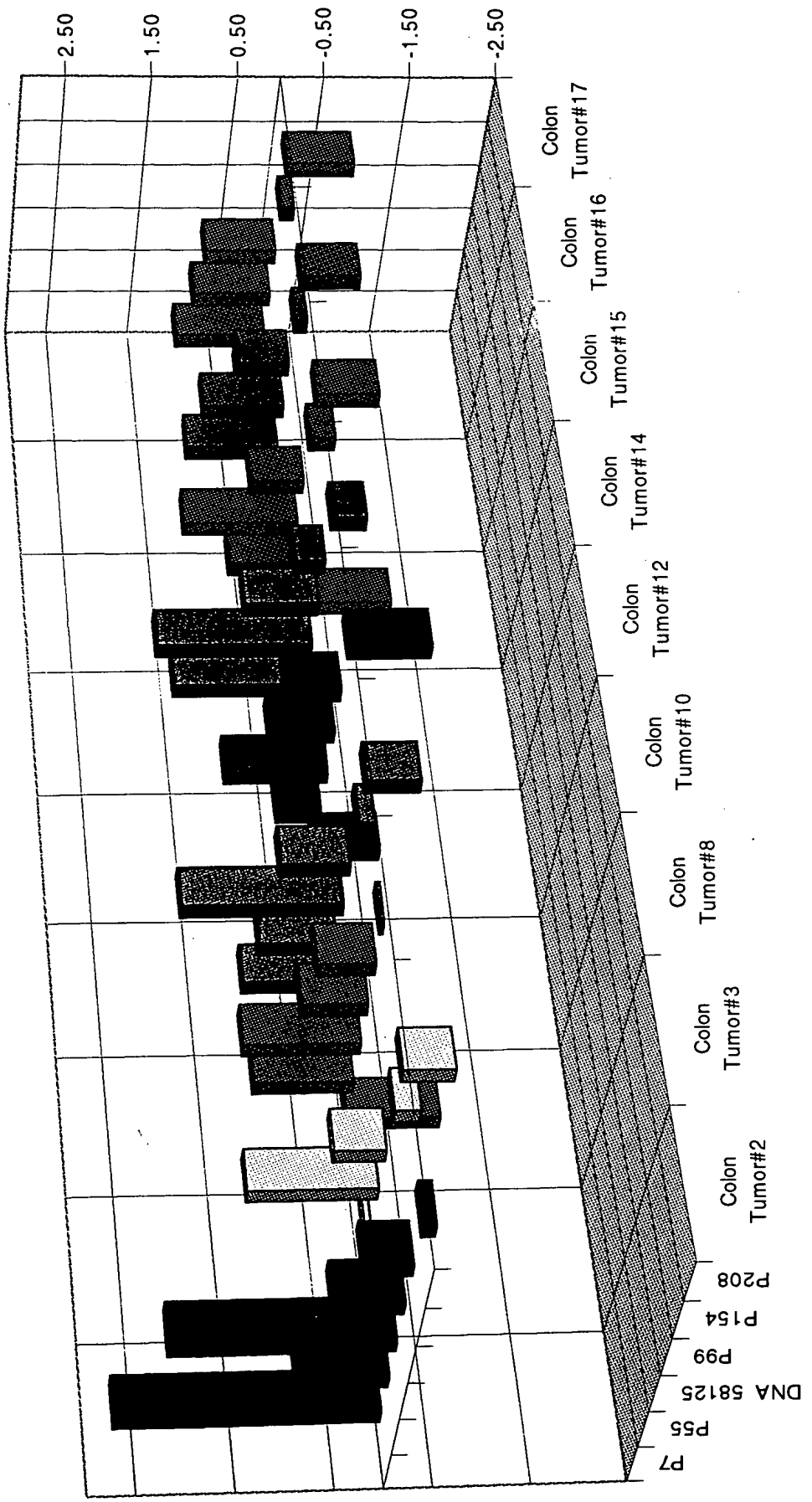


Framework Analysis of DNA58125 Cardiotrophin-1 on Lung Tumor Panel 2

FIG. 4

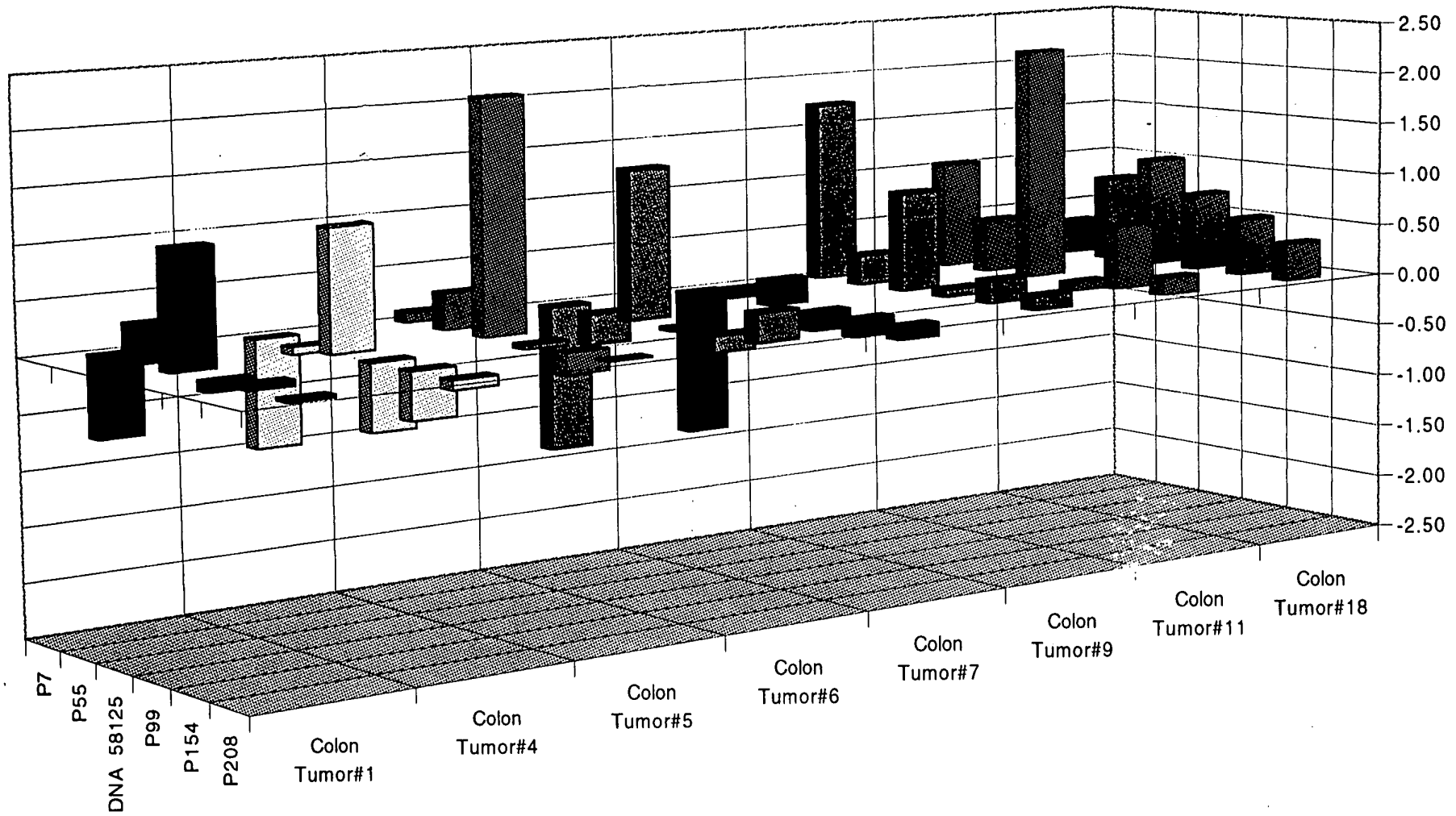
FIG. 5


DNA 58125 (CT-1)
on Lung Tumor Panels 1&2
Mean Δ Ct Among Duplicates
2.50
2.00
1.50
1.00
0.50
0.00
-0.50
Lung Tumor #1
Lung Tumor #1a
Lung Tumor #2
Lung Tumor #3
Lung Tumor #4
Lung Tumor #6
Lung Tumor #7
Lung Tumor #9
Lung Tumor #10
Lung Tumor #11
Lung Tumor #12
Lung Tumor #13
Lung Tumor #15
Lung Tumor #16
Lung Tumor #17
Lung Tumor #18
Lung Tumor #22
Lung Tumor Panels 1&2



Framework Analysis of DNA58125 Cardiotrophin-1 on Colon Tumor Panel #1

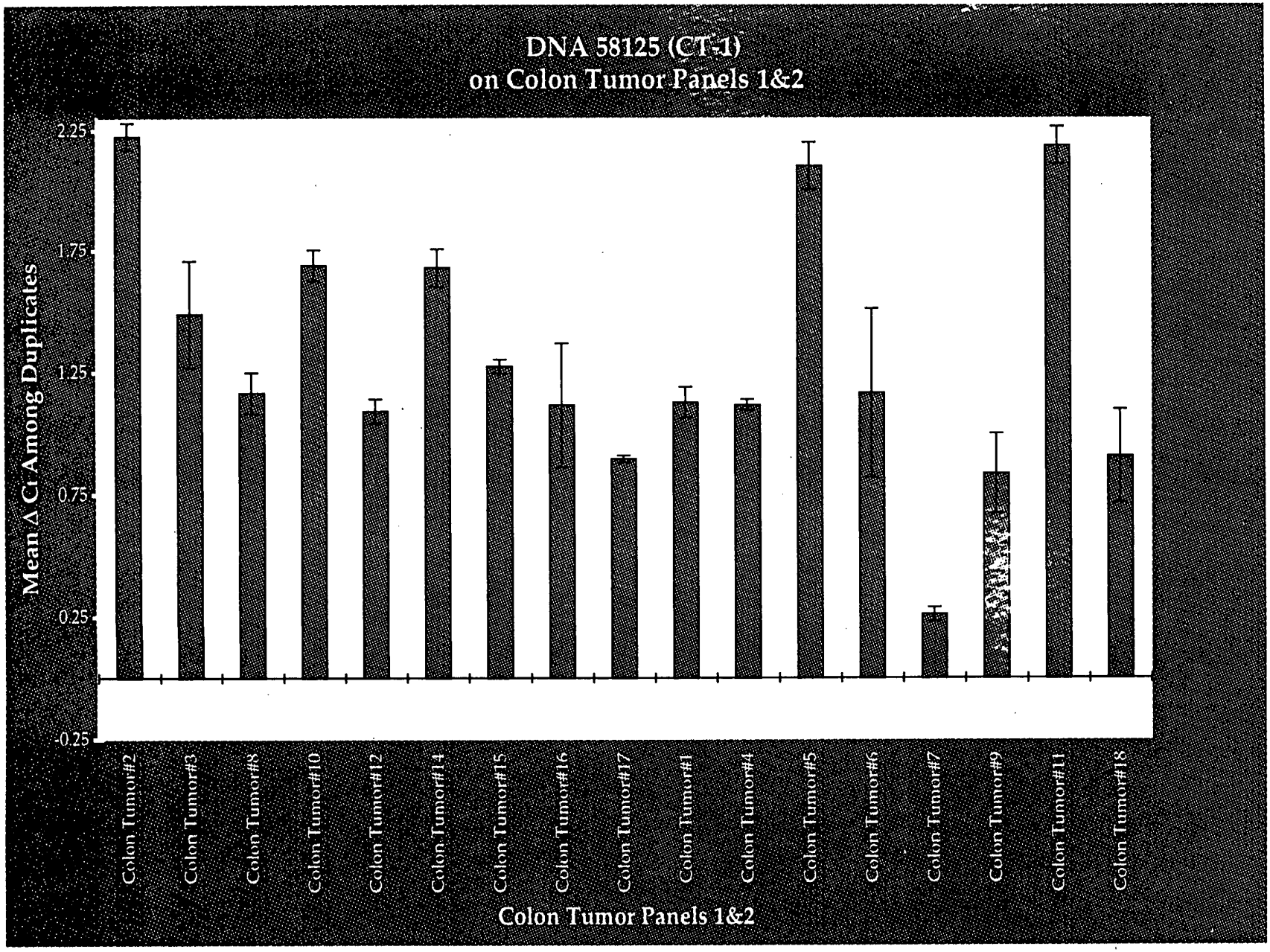
FIG. 6

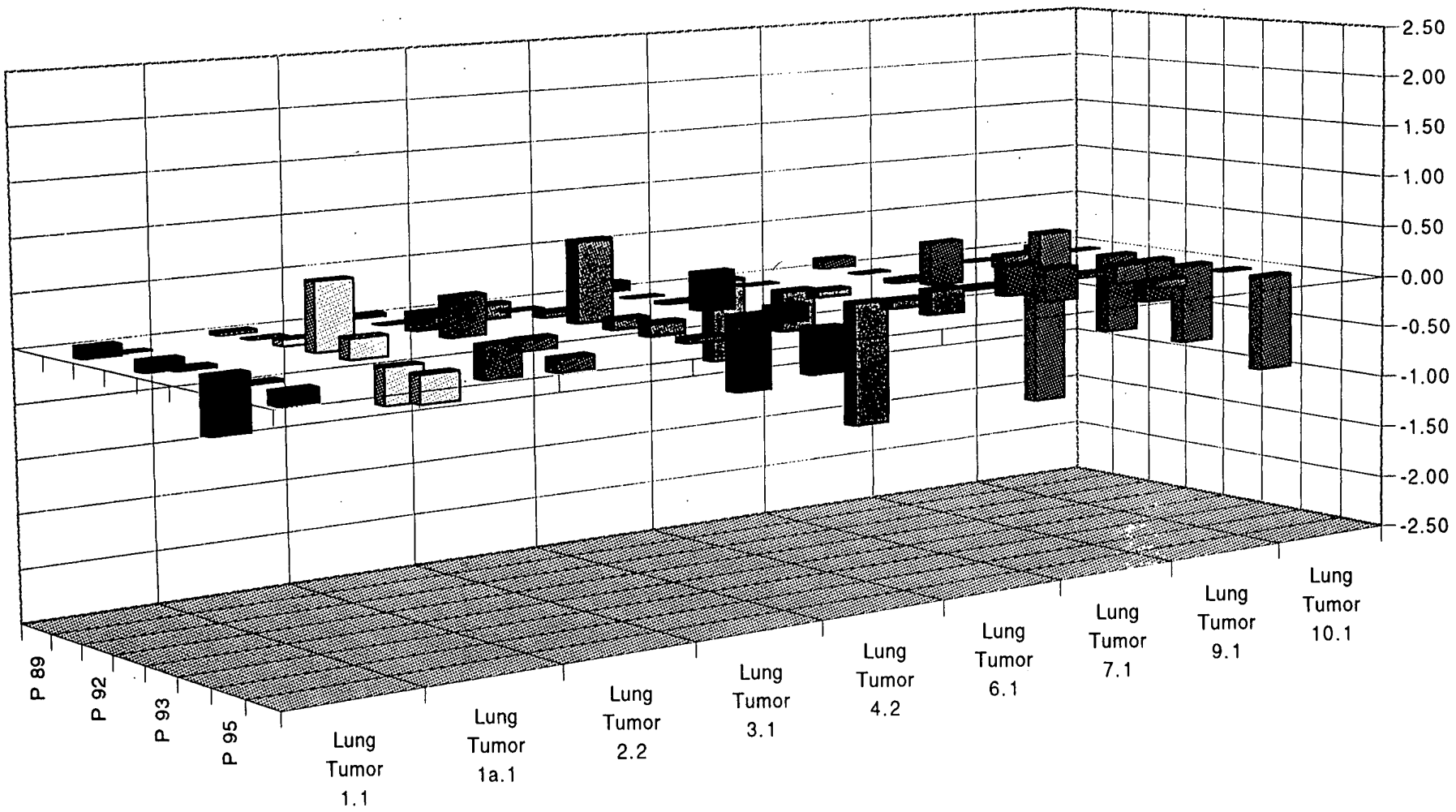


Framework Analysis of DNA58125 Cardiotrophin-1 on Colon Tumor Panel 2

FIG 7

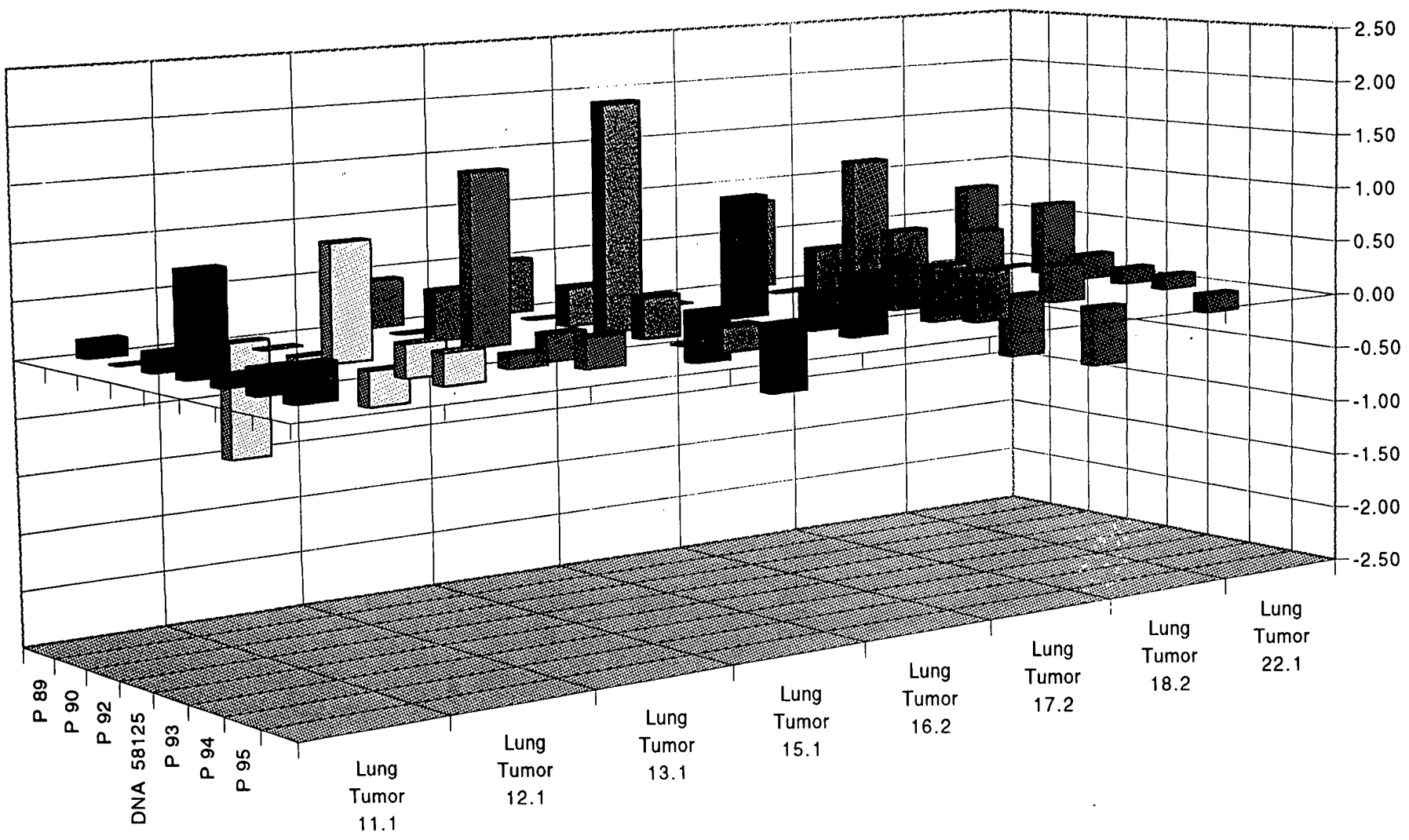
FIG. 8


DNA 58125 (CT-1)
on Colon Tumor Panels 1&2
Mean Δ Ct Among Duplicates
2.25
1.75
1.25
0.75
0.25
-0.25
Colon Tumor#2
Colon Tumor#3
Colon Tumor#8
Colon Tumor#10
Colon Tumor#12
Colon Tumor#14
Colon Tumor#15
Colon Tumor#16
Colon Tumor#17
Colon Tumor#1
Colon Tumor#4
Colon Tumor#5
Colon Tumor#6
Colon Tumor#7
Colon Tumor#9
Colon Tumor#11
Colon Tumor#18
Colon Tumor Panels 1&2



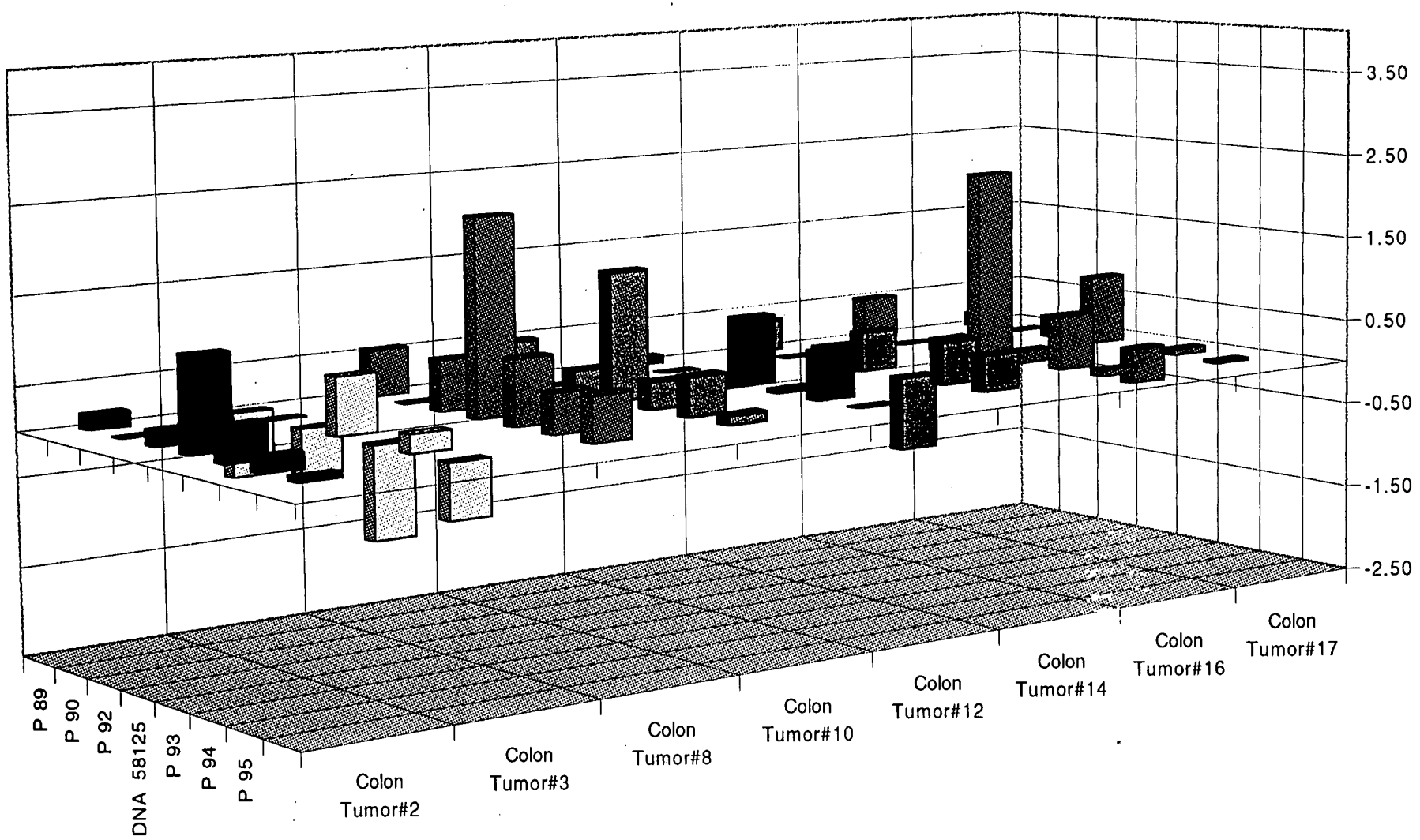
Lung Tumor Panel #1
Epicenter for Chromosome # 16

FIG. 9



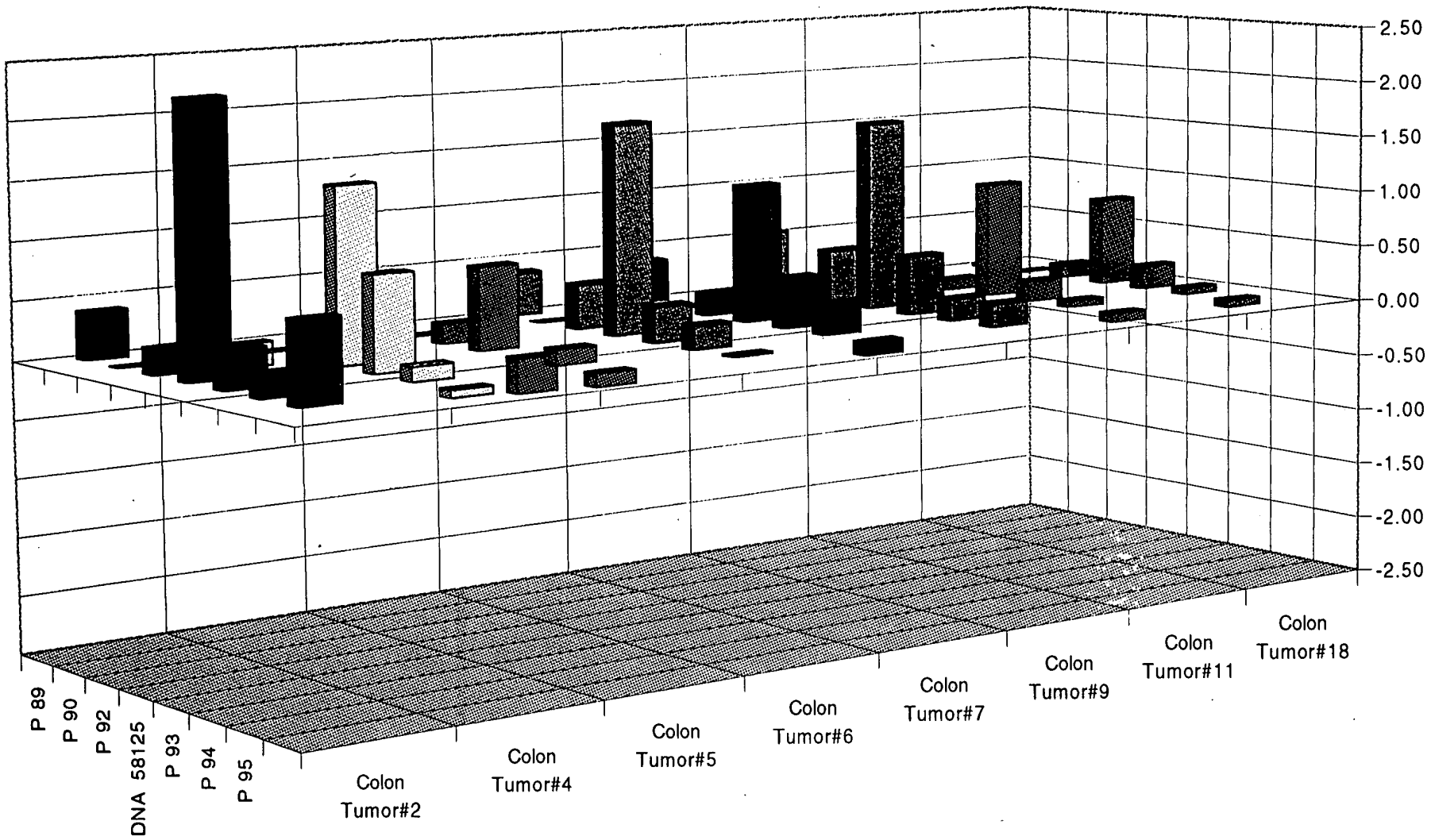
Lung Tumor Panel #2
Epicenter for Chromosome # 16

FIG. 10



Colon Tumor Panel #1
Epicenter for Chromosome # 16

FIG. 11



Colon Tumor Panel #2
Epicenter for Chromosome # 16

FIG. 12